

**Fig. 1**

GGAATGCCAGGAAAGCAGATGTCCATCGACGCGGACTTGCGCGGGCACCATAGACATG  
1 -----+-----+-----+-----+-----+-----+-----+ 60  
CCTTACGGTCTTTTCGTCTACAGGTAGCTGCGCCTGAACGCGCGCCCGTGGTATCTGTAC  
G M P G K Q M S I D A D L R A G T I D M -  
GACGAAGCCCGACGCGGACGCGGTACGGTCGAGAAGGAAAGCCAACTGTATGGCGCCATG  
61 -----+-----+-----+-----+-----+-----+ 120  
CTGCTTGGGGCTGCGGCTGCGGCATGCCAGCTCTTCCTTTCGGTTGACATACGCGGTAC  
D E A R R R R R T V E K E S Q L Y G A M -  
GACGGCGCGATGAAATTTGTCAAGGGCGACGC  
121 -----+-----+-----+-----+ 152  
CTGCCGCGCTACTTTAAACAGTTCCCGCTGCG  
D G A M K F V K G D A -

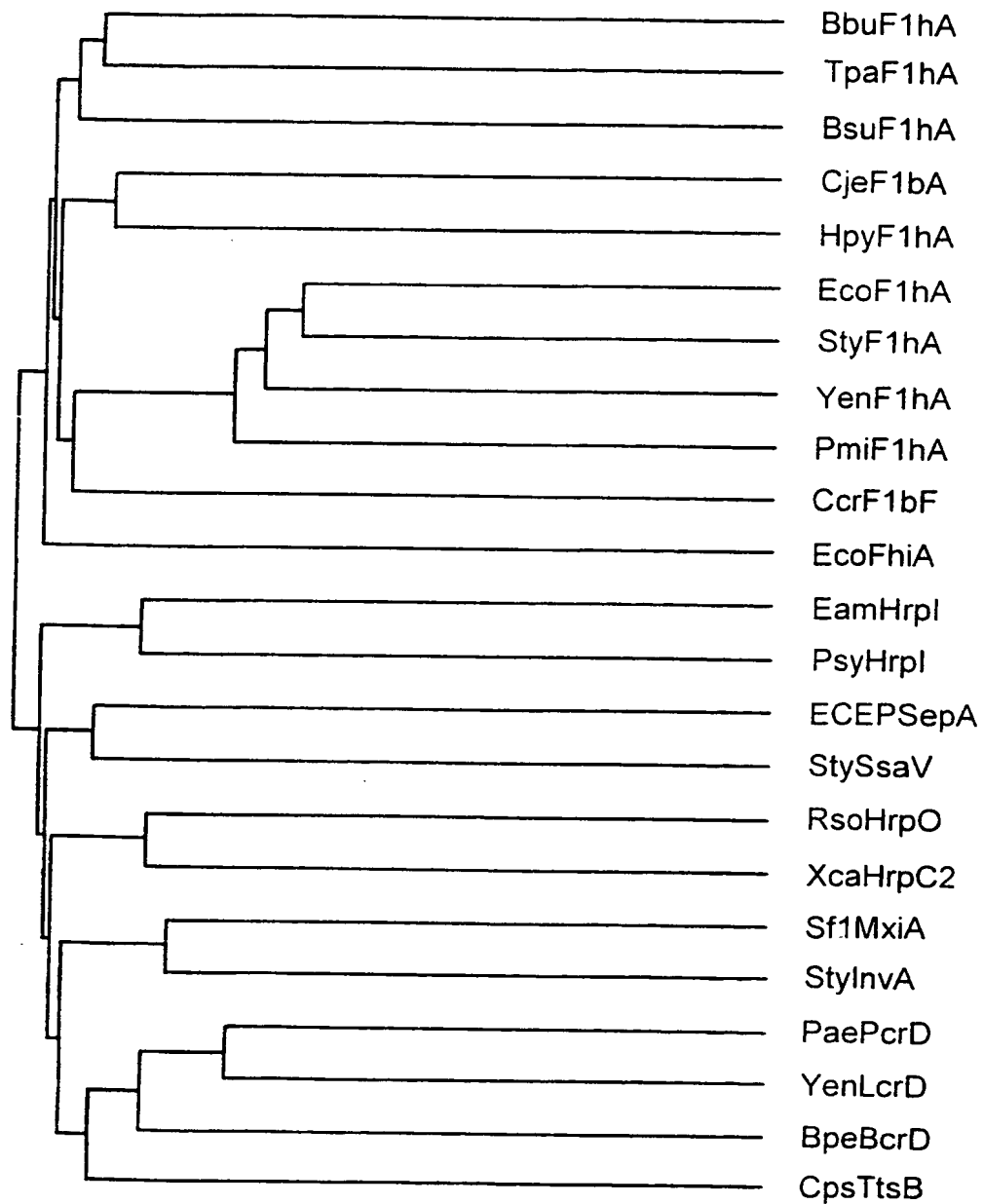
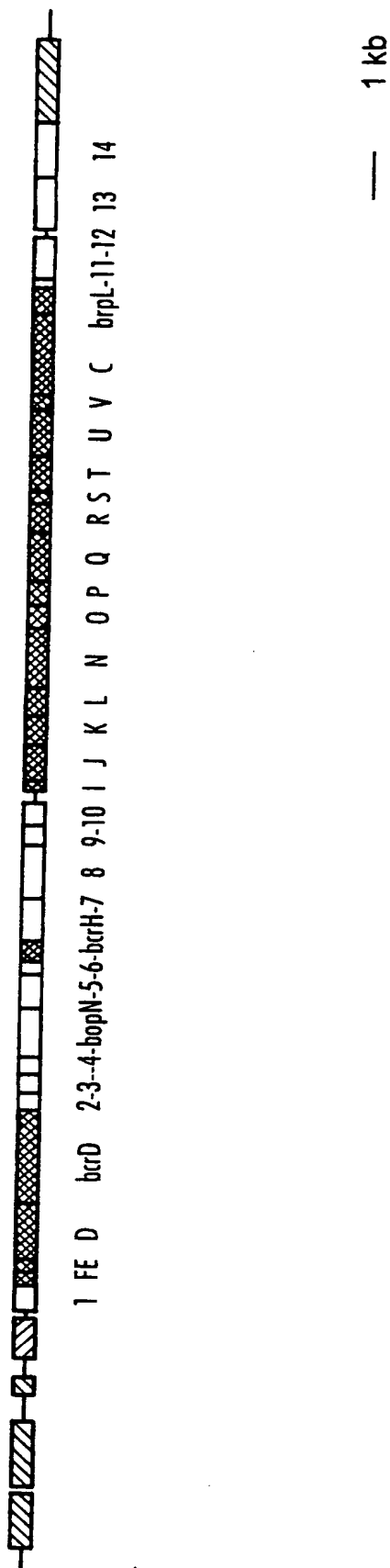
**Fig. 2**

Fig. 3



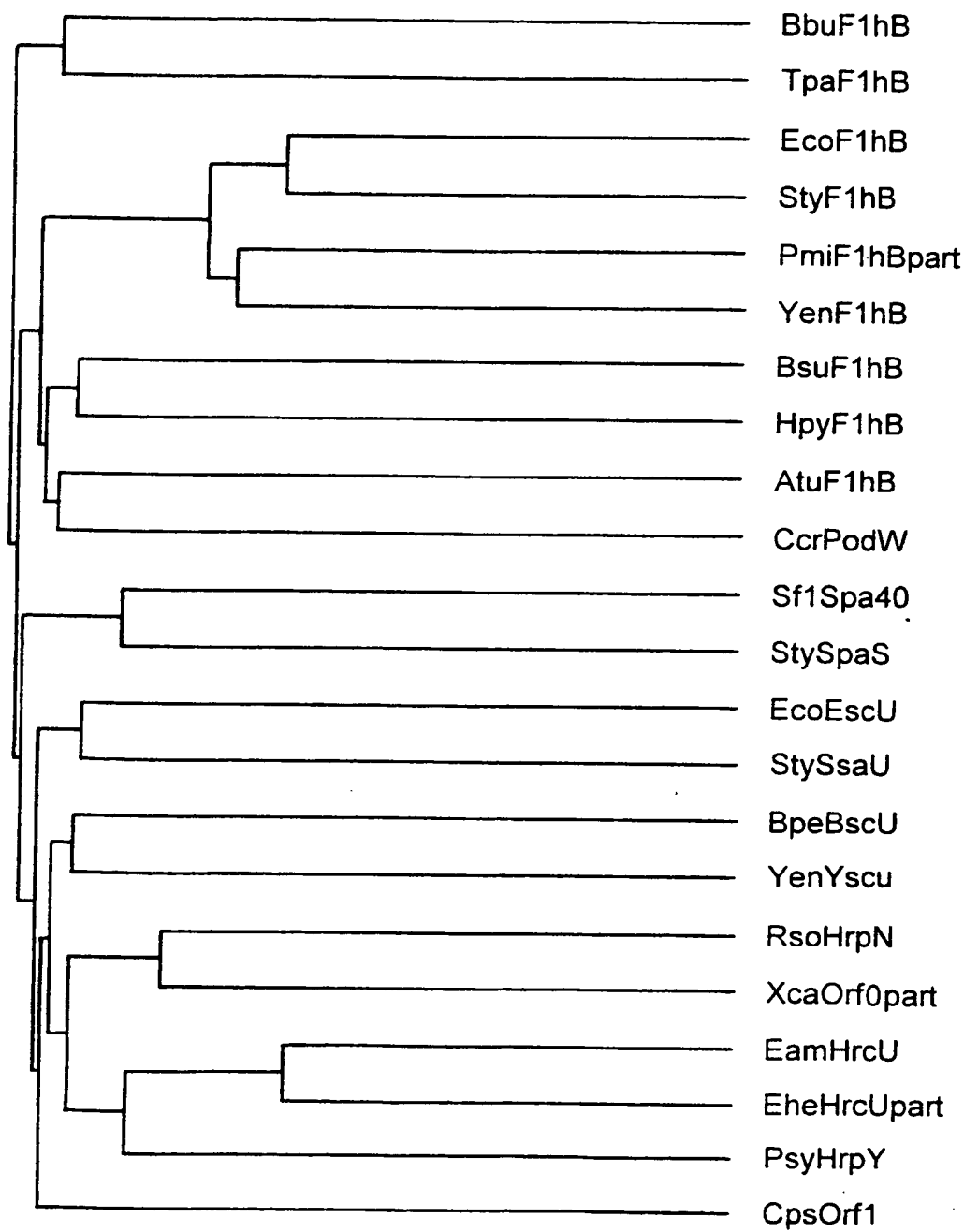
**Fig. 4**

Figure 5

1 GATCTCCAGC TTGATGTCCG GATGGGCCTT CTCGAAGGCC GCCTTGTAGG  
 51 CCTGGGTCAG GTCCTTGGGG AAAGACGTGA TGACCGTTAC CGTGCCGGCC  
 101 AGGGCCGGCG CGCAGGCAGC CATGATGGCC GCTGCGAGGA CTGGGCGCAA  
 151 CGCTTGATG GGTCTCCTCC TTTCTTGAGT TGTGGCAAGA CCTTAATGCC  
 201 CGTGTTCCTC CGAGTCCAAT CAGAAATTTT GATGCGCGCC ATCAACGGCG  
 251 CGGCCGGCTT CAGCGCGCCG CCAGCCGCTG CGCCAGGCGC AATTGCTCTT  
 301 CCAGCAGCTT CTGGATCTGC CCCTGGATGG CGAAGGCCTG GCGGTTCAGG  
 351 TCCTGCAGCT GCCGGGCCTG CTGCTCGGCG GTGGCGTTGC TTTCGCGCAC  
 401 CTGGCGCATC TGGCGCATGA TGGCCGCCAG CTGGCGCTGC AGGGCCTGCA  
 451 AGGCCTCGGC CGCGGGGCTG CCGGCCTCGT CCTTTGCGCC GCTGGCGGCG  
 501 GCCC GGTCGC GCAACTGCCT GGCCTACTGG TCGAACGCGC CGCGGAGAT  
 551 GCGCGATGAA ACGGAAGTGA CGGTCATGGT GGCGGCGTCC GCGTGGATTA  
 601 GGGTTAGTCC TTAATACGGC AGGCGCGCGG ACGAACTTAA ACATATTGCT  
 651 GCGCGCTTCC GACCCCCCTT AACTTTGCGC CGCCCATCCC TTCAACTTCC  
 701 ACGCATACCT ATGTCCAATA CCTATTTCCC GCGCTGGCGG CTGSCCGACG  
 751 ACACCGTGCC GGGCGCGGTC ATCGCGCCCG ACGAACGCCT GTCCTGGCCC  
 801 AAGAACATCG CCATGGGGGC CCAGCACGTG GTCGCCATGT TCGTTCCAC  
 851 CGTGCTGGCG CCGCTGCTGA TGGGTTTCGA CCCCAATGTG GCGATCCTCA  
 901 TGTCCGGCAT CGGCACGCTG ATCTTCTTCC TGTTCTGTCG CGGCCGGGTG  
 951 CCCAGCTACC TGGGCTCCAG CTTCGCCTTC ATCGGCGGGG TGGTGGCGGT  
 1001 CACCGGCTAT GTGGCGCCCG GCGCCAACGC CAATATCGGC GTGGCGCTCG  
 1051 GCGCGATCAT CGCCTGTGGC CTGGTGTACG CGCTGATCGG CCTGGTCGTA  
 1101 TGGGCGGCCA GCGCGCGCGG CAACGGGGCG CGCTGGATCG AGGCCATGAT  
 1151 GCCGCGGTC GTCACGGGCG CGGTGGTGGC GGTGATCGGC CTGAACCTGG  
 1201 CCCC GATCGC CGCCAAGGGC GCCATGGGTT CGTCCGGCTT CGAGGCCAGC  
 1251 ATGGCGTTGA TGACCATCCT GTGCGTGGGC GGCATCGCCG TCTACACGCG  
 1301 CGGCATGGTG CAGCGGCTGC TGATCCTGGT CGGCCTGGTG CTGGCCTGCG  
 1351 TCATCTACGC GGTCTGCGCC AACGGCCTGG GGCTGGGCGC GCCCATGGAC  
 1401 TTCGCCAAGG TGGCCGCCGC GCCGTGGTTC GGCCTGCCCA GCTTCGCCGC  
 1451 GCCGGTGTTC GAGCCGAGG CCATGGGCCT GATCGTGCCG GTGGCCATCA

Figure 5 (continued)

1501 TCCTGGTGGC CGAGAACCTG GGCCACGTGA AGGCGGTGCG CGCCATGACC  
1551 GGACAGGACC TGGACCGCTA CGTGGGCCGC GCCTTCGTGG GCGACGGCGT  
1601 GCGGACCATG GTTCCGGCG CCGTCGGCGG CACCGGGGTG ACCACCTACG  
1651 CCGAGAATAT CGGCGTGATG GCCGTGACGC GCATCTATT CACGCTGGTG  
1701 TTCGTGGTGG CGGCCGTGAT CGCGCTGGTG CTGGGGTTCT CGCCCAAGTT  
1751 CGGCGCGCTG ATCCAGACCA TCCCCGGCCC CGTGCTGGGG GGCATGTCGG  
1801 TCGTGGTGTT CGGCCTGATC GCCATCGCCG GCGCGCGCAT CTGGGTGGTC  
1851 AACCAGGTCG ATTTACGCGA CAACCGCAAT CTGATCGTGG CCGCCGTGAC  
1901 CCTGGTGCTG GGGGCGGGCG ACTTCAGCGT CAAGCTGGGC GATTTCTCGA  
1951 TGAACGGCAT CGGCACCGCC ACGTTCGGCG CCATCATCCT GTACGCCCTG  
2001 CTGGGCCTGG CGCGTCGCCG CTGACGGCGC GCCAACCCGG CACCGGGGCC  
2051 GCGCTCAGTG GGCCGCGGCC GGCGGCAGGG CGGCATGGCC GCCCGCCGGC  
2101 CCGGCCAGCG GCGCGGCGGC GACGTCGATG ATGGCGCCGC CCTGCGTCCT  
2151 GAAGACCGCC GCCGCGGCCG CCAGGTGGCG GGCCTGTTCT TCCATGGCCG  
2201 TGGCCGCCGC CGCGGCCTGT TCGACCAGCG CGGCATTCTG CTGGGTGGTT  
2251 TCGTCCATTT GCGAAATCGC CAGGCTGACC TGGTCGATGC CGCTGGCCTG  
2301 CTGGGCCGAG GCGGCCGAGA TCTCCCCAT GATGTCGGCC ACGCGCTGTA  
2351 CCGAGGCCAC CACCTCGTCC ATGGTGCCGC CGGCGCTGGC GACCTGTTGC  
2401 GAGCCGGCGC GCACCGTCGC CACCGAGCTC TCGATCAGGG CCTTGATCTC  
2451 CTTGGCCGCC TCGCGGCGGC GCTGGGCCAG GCTGCGCACC TCGCCGCCA  
2501 CCACCGCGAA GCCCTTGCCC TGTTGCGCCG CGCGCGCCGC CTCGACCGCG  
2551 GCGTTCAGCG CCAGGATATT GGTCTGGAAG GCGATGCCGT CGATCACGGT  
2601 GACGATGTCG GCGATCTGGC GCGAGCTCGC GGAGATGCCG TGCATGGTCT  
2651 GCACCACCTG CGCGACCGAC TCGCCGCCGC GCTGCGCCAC CTGCATGCTG  
2701 ACGGCGGCCA GCTGATTGGC CTGCGCGGCA TTGTCGGCGT TCTGCTTGAC  
2751 CGTGGTGGCC AGTTCCTCCA TGGTGGCCGC GGTCTCTTCC AGGCGGCGG  
2801 CCTGCTCCTC CGTGC GGCTG GACAGGTTGG CGTTGCCGGC CGAGATCTCG  
2851 GCCGCGCCGA CGTTGATTTG GTCGACGCCG CGCCGCATGA CGGCGATGGT  
2901 GCGCGTCAGG CCTTCCTGCA TGCGCTTGAG CGCCGCGAAC AGCGCGCCGA  
2951 TTTCATTGGC CGAGCGCACC TCGATGCGCG CGGTGAGGTC GCCGTCGGCG  
3001 ATGCGGTCGA AATGATGGCC GGCCTCCAGC AAGGGGCGCA GCACCGCGCG

Figure 5 (continued)

3051 GCGCACGAAC AGCCAGCCGG CCAGGGTCAG CAGCACGCCC AGCCTGGTCA  
3101 GCGCGATGGC GCTCCAGCGG GCCACGACAT GGGTGTCTTC GGCCTCGCTC  
3151 CGCACTTCGT CGCTGTGCGC CTGTACCCTG GCCAGAAAGG CTTCCATGTC  
3201 GCGCTGGAAT GCATGTTCCG CCTGTGTCGC GCGATGCATG GCGCCAGGG  
3251 CGGGCTCGGC CTGGCCGCGG TCGACGGCGG CGGCCAGCTC GTCCAGCACC  
3301 GACTGGTAGG CGCGCCAGCG CGTCTGCAGG GTCGCGGCCA GCTCGGCCGC  
3351 GGCCGGCTCC TTGGGCACGT CCACGTAGCG CTGGAATTGC GTGGCCGCTC  
3401 GCGCTGTCGC CGCGCCGCTG GCCTCGAACA GCGGGTCGAC CTGTTGACG  
3451 GCGACCTGGT TCAGCCCCTC GATCTCGGCG GCGCTCCTGC CCGCTTGCG  
3501 CCACGTCAGG GCGCCCGACA GCATCAGCAC CGCCAGGAAG CACCGAATA  
3551 CCGCCACCAT CGCGGTGCGG ACCTTGATCC TTTCAAGCAT GGCCATCTCC  
3601 TGGGTAGGGT CTTGCGCAAT AAACGTCGAC GACGTGCGCG GCGTACCCGC  
3651 GCGGGAAGTG TCAGGCCGTG ACGTGGAATC CGTTGTTGAT GTGGAATTCG  
3701 ACTTAAATGA TCGGTATTCT GTATTAATTT GTTATTTGTA GTTATATATA  
3751 CGAATATTCA TACCCGGATT TGCCCTAAGT TGGTGCGTTC TCGACGGGTG  
3801 CTTTCGATTG CCCGGGGCCT GCGGCGCATG AAGGAATGCG CCGCAACGCC  
3851 GGGCCCGCGC TCGATCGGC GGCCAACACG CAGGTTTTGT GGCTTTTCCG  
3901 CAGCCAACAT GCGCCGAAAC CTACCCGGG CTTACAGGCT TGCAATTCCG  
3951 GTGGACTTTG CCGACAATGT CATCTGATTG CCGCGTTCC GACCCGAGCC  
4001 GGGGTTTTGT TTTGGTCGAC GCTTGGCCGC CGGATGCGGC AGGCCGATCA  
4051 AAGAGGAGAC AGCAAAGGG AGCCTCGGTC GGGTTCGACC TTGTCTCGTC  
4101 TTTTGTTTCG CTGTCTTCCG CAGCGGCCCG CCTGTTTCAT GGCAGGCCA  
4151 TACACCAAGC CGAGACCTTC ACCGAAACGC TCCGTCGGGG GCGTTTTCTA  
4201 CTTTTGTTTG GGAAACGACA TGTCTGCCAT TCCTTTGACC GTGCGCGGG  
4251 CCGAGCGCTT GCAGCAAGAA CTGCATCGGC TTAAGACCGT TGAGCGTCCT  
4301 GCGGTGATCA GCGCCATTGC GGAGGCGCGT GCGCAGGGTG ATTTGTCGGA  
4351 AAATGCCGAG TACGACGCCG CCCGCGAACG CCAGGGCTTC ATC3AAGGCC  
4401 GGATCTCCGA ACTCGAGGGC ACGCTTTCTGA ACGCGCACCT CATCGATCCA  
4451 ACGGCGCTCG ACGCCGAAGG CCGTGCCGTG TTCGGCGCGA CCGTGGAAAT  
4501 CGAAGACCTC GACTCGGGCG ACCGCCTGAC CTACCAGATC GTG3CGACG

## Figure 5 (continued)

4551 TCGAAGCCGA CATCAAGTCC AACCTGATTT CGGTCTCCAG CCCCTGGCC  
4601 CGCGCCCTGA TCGGCAAATC CGAGGGCGAT GTGGTCGAAG TGAAGGTGCC  
4651 GGCTGGCGTG CGCGAGTACG AAGTCATCGG TGTGCGTTAT CTCTGACGCC  
4701 GATTCCGCCC CCCTGCATAC CCATGGCCAA TGACCGACGC CGTTTCCACC  
4751 ATCAGCCAGC CGCTTGCGGC CAGGCGGGGT GGCACAGCCG CAGCCGTCGC  
4801 GCTGCAGGCG TCCCGGATGC GATATCCCGG GCTCCGGTCG TGGCCAGCGT  
4851 ATTCCCCTTC TCGGCCGTCA ACGGCTTGGG GGGCGCGGTA TTCATCCGAA  
4901 TTCCTGAACG CCGGGCCGTG CGCCGGGCGT CTGTATCGTT GTCGCGCCGC  
4951 GATGCACGGA ACGTGCCGTC GGGCGCCGCA ACGCCGGGCC GCGCCGCCA  
5001 GGTGTGAACT GTCAATAGGT TGTATTGTC CAGGTTGAGT CTGGAGATGG  
5051 GTACAGCGCG CCCGATGCCT TGGTGGGGTC GATGCCAGTT GTAGTGGTGT  
5101 AGCCAGGATT TCATGGCATC GGCTCGGTGT TGGGAGTTCT GGTAGGTGTG  
5151 AGCGTAAGCC CACTCACGCA AGGCCGACTG GATGAAGCGT TCGCCCTTGC  
5201 CATTGGTCTG TGGGCGGTAA GGTCGGGTAA AGCGGTGCTT GATGCCCAGC  
5251 TCATGGCACA GCGCGGCGAA GCGCGGCTG CGAAAGGCCG AGCCATTGTC  
5301 GGTGAGCAAG CGCTGGATGG TCACGCCCAG GCGCTGGTAG TAGGCCACTG  
5351 CGTCCTTGAG GAACTGGACG GCGCTGGGGA AGCGCTCGTC GGGGTGGATG  
5401 TCGGTGAAGG CCACGCGGGC GTGGTCATCG ATGGCCACGA AGACGAAGTC  
5451 CCAGCCGGCC CCCTCAACGG TATCGCGTCG GTTGCCCGTG ACCCGGTGGC  
5501 CAGGGCGCTG GATACGTCCC AGCTTCTTGA TGTCGATGTG CAGCAGATCG  
5551 CCGGGGGCCT GATGCTCGTA GCGCACCACC GGCTCGGCCG GCTCCAGGTC  
5601 GGCCAGGTGC GACAGACCGG CGCGGGCCAG GACGCGGCTG ACGGTGCTGG  
5651 CTGACACGCC CAGCGCCTGG GCGATGCGCG CTTGGGTCAG CCGCTTGCGG  
5701 CGCAGCTCCA CGATAGCCAG CGCCTTGGCC GCGCAATCG CTCGGGGCGA  
5751 GACCGTCGGG CGCGAGGACG CATCGGCCAA GCGCGCCTGG CCCTGAGCCA  
5801 GGAAGCGGCC CAGCCATTTG CGCACAGTCG GCGCGGTGAC CCCATAGGCG  
5851 CGGGCCGCTT CAGGCACACA AACTTGATGG GCGATCAATT GCTGGACCAT  
5901 TTCGAGTCGA CGTAGGAAG TCAATCGGGC ATGCTTATGG GTGTTTATCC  
5951 GGCCGGGCTC CTTGAGTGAA CTGGGGGGGT GGCGATTTC AGTTTCTCAA  
6001 ATCCGGTTCG GATGAACCAT GCATACAACC TATTGAATCT TCACAACTAG  
6051 CGCGCGTGGC GCGGAAAGAC CAGCAGGTCG GCCGTCACCG GTTCCCTGTT



Figure 5 (continued)

6101 GTCGAATAAC AGGTAATGCG TGGCGTCCGG ATATTCGCCA TGGCGCGCGC  
6151 CGGATCCGCA TGCCCTTGGC GGGGTCCTGC GGCCGGACGT CCGAAAACCG  
6201 GGATATTCCG AGAAGCAATC GGCTGGCGCC TTCCAGACTG TGCGCATACC  
6251 ATTGCCCTCT TTTGCCACGC ATTTCGAGCG TATGGTTTCC CTTGCGCCCG  
6301 ACGCAGGCTC GCCTCGCCAT GACCGACACG GCATACCACC AACTCATCGC  
6351 CGATTTTCGGC CGCCTCATCG GCATCGACTC GCTCAACCCC GGTGCCGGCG  
6401 GCCTGTGTCA GTTGATTTTC GAACCGTGCG CACCGGTCTT CATCGCACCG  
6451 GTGCACGCCC GGACGGAAAT CATGATTTCC TGCCTGCTGG GCACGGCGGA  
6501 CGCGGCCAAC CCGGCAAGCA TGGCCCGAGC CAACTTCATG CAGGCCGGCA  
6551 GCGGCGTCGT GGCCTGCATC GCGGCGATG GGTTGTTCTA TCTGCAGCAG  
6601 GCCATACCCC TGTCGCGCGC CACGCCCGCA ATCCTGCTCG ATCACTGTGA  
6651 GCGTCTGCTG CAGGAAGCCT CGCGCTGGCG CGTCGGCGAC CACGACGGCT  
6701 GCGCCACCTC GGCCCCGAAT ATCGCCGCGC TGACGCGCGG CGTCTAGGTC  
6751 GCGGCGGACT GCCGGGCGCC GCCGCGGCG GCTCAACTCG CTTTCTGTAT  
6801 GACGCCCTTG AGCGAATCCG CGACCTGCTT GACCACCGTG CTCTGTAGAT  
6851 CGATCATCAC GACCCACGAT TGCATTTCTT GTTGCACGAT CAGCAGGTCG  
6901 GACGTGCTGA CCGCGCCGTC TCCGCGCGCG CTGAGCGCCT CCAGGCGGCT  
6951 GCGCAGGTCG CGTTCGTGAG CGTTCAGCCG CGTATTGACC GCCTGGTTGA  
7001 CGCTCTGCAT GGTCACTCGG CCTGCGTCGC CTCCCAGGTT AATGGCCATG  
7051 CTTGTCTCCT TCGGCGCATT GTTCATTGCT CAGGCGCGTC AAGACTGACG  
7101 CCGGAGGGTT GTCCGGCCCCG GTCGGGCGCT GCAGCAATAC CTGCCGGGCC  
7151 GCGGTGGCGG CCGCCAGCGC GTCGCGCCAT ACGGGATAGG TGTCGCGCCC  
7201 CACGCCATCG TGCAGGCGGA CGCGCAAACG TGTCTCCAGT TCGCCAAGCT  
7251 GCGACAGCAA GGTGTCGCGC AAGGCGGAAC CGCCCGGCGA TGCCAGGCGC  
7301 ACTTCCAGTT CGGTCAGGGC TAGAACAGAT GTACTCATAT GATGTTGCAG  
7351 ACAGAGGGTTG ACGGCTACCG AGGCGATTTC ATCGCGTCAC GATGACCGGT  
7401 TCGGGACCAT CGAAGACCAG GCGGCCGGAT TCGATGGCGG TAAGGCGATA  
7451 CTGGTCCCCG AGTCCGCCCA CCAGGAGGCG GCTGCCATCG GCCAGCATCA  
7501 GGTACGGTTG CGGGCCGCTC ACGACACTGC GTATCTCGAA CGGCACGTGA  
7551 TCCCGCGTCG CGCGCGCGG GGTGGCCGGC AGCCGGACGA CGTCGTAGTT

Figure 5 (continued)

7601 GCGCTGGTTG AACGCGGCCA CCAGCTCGCG CAGGCGCGCC ATGCGGCCTG  
 7651 CCGCCAATCC GCCGGGATCT GCGTCCAGGC GGTCGGCGTG CCAGCTGAGC  
 7701 TTGACGCCGT CGAGGCGTTC GTCGGCCAGC TGGGCCGCGA ACTGGGCCGA  
 7751 GACCTCGTCG GCCAGGCGTA CATCGCGACC GAGGATCGTC ATGCCCCGCA  
 7801 GGCGCATGCG CACCGCATGC AGCGCCGCGG CGCGTTCGTG CGCATCGCTG  
 7851 GCGATGCCCC AGATCGCCAG GCGGCCATTG CCGTACGGGC GCGCCATGTA  
 7901 GCGCACCCCG AATGTCGCCA GGACATCGCA GGCCAGGGCC CTGGCCTCGT  
 7951 CCTGCCTGCT TACCTGCATG GCAGGCCGTG GCGCAAGTTG CGCCAACGCC  
 8001 CTGGCGACCC GAGCGAATTC CGTCTCGTCG TGCACCCATC CGGTCACGGT  
 8051 GAGCACGCCG CCACGGCCGT AGGCCGCTTG TAATTGCTCG GTAAGGCCCA  
 8101 GGCTGTGCGAT GAGCGCCGCG GCGCGGACCA GCGGCGCGGT GGGCGTTGGG  
 8151 GGCGGCGCGG CCGGCGGCGT GGCGGGTGTG GTCACGGAAA CCAGCGCCGT  
 8201 GGCCAGGCCG ACCAGCAGGA CGGCCGCGGC CGCGCCAGC GCCAGCCAGG  
 8251 GCCGTCTGTC ACGTCGGCGC GGCATGAGGG CAGCGACGGA CGGCGGGCTT  
 8301 GTCGAGCCAG GGACGTCGTG CAAGGCTGTG TCGCTGCCGT CCGGGCCGCA  
 8351 CGGCTCCGGC GGCGCGGGCC ACGGCGCGGA AGGGGCGGCC ACGGTGATCC  
 8401 AGGCGGCTCC CAGCTCTACG GGTTGCTTGA AGGCCGCGGG CGGACACGGC  
 8451 GCCTGGGCGT CCAGGCCGGG CGTCACGGCG CCGGCCAACC GCCAGCCGGA  
 8501 CTGGTCGATC TCCAGCCATC CCGCCACTTC GGGCATGTCC TCGCCGGTCA  
 8551 GGACGATATC GCAATGCGGA TTGGCGCCCA CGCGCGCGCC ATGCACGGCC  
 8601 GGGCAGCGCG CCATGCACTG TGCGCCTGAA AGCACGCGGA ATTCCAGCGC  
 8651 CGTCGTCATA GATCCACCCT GCCCAGGGGC TGTACATTGA TCTCCGGCGT  
 8701 CAGTTCCTGG TAGGACAGCA CCGGCAGGGC GTAGAGATCG GCTTCTATCA  
 8751 TCTTGCGCGT GTAGCGCCGG ATGTCCATCG ACGTCAGCAA GACGGGACGG  
 8801 CTCGCGCCGG CGGCCAGATC GCCGACACAT TGACGGATGT GCTCGACCAG  
 8851 TCGGCGTGTC GTGTCCGGAT CGAGGGCGAG ATAAGTCCG GCGGCGGTCT  
 8901 GCCGGATGGC GGCGCGCACG GTTTCCTCGA CCTTGGGGGC CAGCAGGTAG  
 8951 GCGGGCAGGA TATTGTGGCC GCTGGTGTAC TTGTGGCTGA TATAGCGCTT  
 9001 GAGTGCGATT CGGACATACT CCGTAAGCAG GACGGTATCC TTTTCCTTCT  
 9051 GGCCCCATTC GACCAGCGCT TCCAGGACGG CGCGCAGGTT GCGTATCGAC  
 9101 ACTTCTTCGG AAACAAGGCG CTGCAGGATT TCGGCAATCT TCTGCACCGG

Figure 5 (continued)

9151 CATGACGCGC AGGCACTCCT TGACCAGATC GGGAAATCGT TCTTCCATGG  
9201 CCGAAAGCAG AAACCGGGTT TCCTGGATGC CGATGAAATC GGCTGAATAT  
9251 TTTTTCATA CATATGCCAA GTGCCAAGTC AGGATCTGGC TGATACCCAG  
9301 GTAAGGAATA CCTGCATCGC GCAAGGCGCC GGTCAGACTG GCCGCAACCC  
9351 AGATCGTGGG CGTATCGGGC AGAAAGGCCG CGCCCGTTTC GTATGCGATC  
9401 CGCAGGGCCT GCAGGTTCTG CTCGGTGTCC CGCACCAGCA CGGCATCGTC  
9451 GCGCAACATT CCTTGCGCCA CCGGGATCTC CGACAGCAGC ATGGTGTAGG  
9501 TATTGGCGGC CAGCGCTTCG GTGAAGCGCA ACTGGATGCC GGGAAACGGC  
9551 ACGCCCAGGT CGAAATAGAG CGCCCGCCGG ATCTGCAGCA GATCGTCGGT  
9601 GAGGGTGGCC GGCTCGAACC GGGGCTGCAG CCGCGCGGCT ACGTCGATGA  
9651 TCAGCGGGAC GGTGGGGGCG AATCCGCCT GCCCATCCGC CGGCGCGCGG  
9701 GTGCGGGGCT GGCCGTCGGC AGCCATGCCG GCGAGCGCGG GTCGGCGGCC  
9751 TTCGGGCGGA CGCTGGGATG CGCGCAGCAG TACGAAACCG ATGGTGCCCA  
9801 CCGCGGCGGC CAGGGCGAAG AAGACCAGCG TGGGCATGCC GGGAAATGAGG  
9851 CCCAGGCCTG CCGAGATCGC GCCGGCAATG ACCAGGGCGC GAGGCTGCGC  
9901 CAGCACTTGT GCGCCGATGT CGGTGCCTAC GTTGGAGGGG CCATCCCCGG  
9951 TCTGCACCCG CGTCACGATG ATTCCGGCGC AGATGGCGAT GAACAGCGCC  
10001 GGGATCTGCG CGATGAGCCC GTCGCCTATG GTCAGGATGG CATATGTCTG  
10051 CACGGCCTCG CCGGCGCTCA GGCCGCGCTG CAGCACGCCG ACCAGCATGC  
10101 CGCCAAGCAG GTTGACGGCA ACGATGATCA GGCCGGCGAT GGCATCGCCC  
10151 TTGACGAAC TCATCGCGCC GTCCATGGCG CCATACAGTT GGCTTTCCTT  
10201 CTCGACCGTA CGGCGTCGGC GTCGGGCTTC GTCCATGTCT ATGGTGCCCG  
10251 CGCGCAAGTC CGCGTCGATG GACATCTGCT TGCCGGGCAT GGCCTCCAGC  
10301 GAGAAGCGCG CGGCGACTTC GGCCACCCGC TCCGCGCCTT TGGTGATGAC  
10351 CACGAACGTC ACGATCGTGA GGATGAGGAA AACCACCAGG CCGACGATCA  
10401 GGTTGCCGCC CACCACGAAG TTGCCGAAGG TCTCGATGAT GTGGCCGGCA  
10451 TCGCCTTGCA GCAGGATCAG CCGCGTGGTC GCGATGGAGA TGCCCAGCCG  
10501 GAACAGCGTG GTGACCAGCA GGACCGAAGG GAACGAGGAA AACGCCAGGG  
10551 GCGAAGGCAG GTACATCGCG ACCATCAGCA GGAATGCCGA CAGCGTCATG  
10601 TTCGCACCGA TCAGCACGTC GACCAGCGTT GTGGGCAACG GCAGGATCAT

Figure 5 (continued)

10651 CATGAAGACG ATCGCCACGA TGAGCACGGC CAGTACGATG TCGTTGCCGC  
 10701 TGGTGGCCAG CGCCACCGCG CGTTGCAGGC GGCGAATGGA TTTCTTGCTC  
 10751 GTCATGGCGG GGTGCGGCTC GCGCAAGACG CCGCCCGTAG CGCCATATAG  
 10801 TCACGCATGG CCTGGCGGGC GTCGTCGGGT CGGTTTCAGCG CCTGCATGGC  
 10851 CTGCGCCCGG ACCAGATGGC CGGCGGCATC GGGTGTGGCG CGCAGTGCGC  
 10901 GCTTGTCCAG CGTGACCAAG GCCATGCGCG GTTCGCCCTG GTGCAGATAG  
 10951 CCCAGCGCCA GGGCCAGCAG GGAAGTGGCTG TCGATCGCGT CCAGGGCATC  
 11001 CAGGGCCGCC AGCAGGGCAA CCGTCTTGCT CCATTGGCGC TGCAACTGGT  
 11051 AGTGGTGGCG AAGCAATTGC AGAAGTTCGC GTACCTGAAG GCTGGGCGAG  
 11101 GGTAGGGTAT GCGGCATCAT CCCTGGTAGA GCGCGCTGCG ATACATGGCA  
 11151 GCCAGGTCGC GCAGCTTTCC GGCCTCGTTG AGTACGTGCA AGGCGCGGCT  
 11201 TAAGGCTGGC GCGGTGTTGC CGGCATGCAG TTCCATGGCC CGGGACAGTT  
 11251 CGTCGCGCGC CTGGGCCAGG GCGCGCTCGA ACTGCGCGGG CTGGAATAAT  
 11301 GCGCCATCCG TCAGGCGAGG CCGCGCCGAC TCGTCGAGCA TCGCGCTCGG  
 11351 GTCCGGGCGT ACGAGCAGGG CTTTCAGATG ATCGACCGCG CCGGTGGCGG  
 11401 GCGGTTCGAG CCAGCGCTCG GGTGGCAGGG TGGGGGCGGG CTCGCAGCGG  
 11451 GGACCGCGCA CGATGTGGTC GACGCCGCGC TCCAGGCCGA GGTGCATGGC  
 11501 ATGCATGCCG GGTACGGCGC TGGACATGGC GTCACGCCTC CAGGCGGTGC  
 11551 AGCCAGTTCG TCAGGCCAG CACCGCCAGG CGCAACGCCG CTGCGTCGAG  
 11601 CGAGCGTTCG GGCAGTCGTG TCTGCGCGAC GATCCAGTCC TCGCTGCCCT  
 11651 CCGACCAGAG TGACGTCTGG ATGGATGCGG CGCTTCCGCG CTGCCCATGG  
 11701 GCCCGTTTCC ATGCCGCCAG CAACACGGAG GCGGCGTCGC GTCGACCCG  
 11751 CTGGGCCAGG TGGACCAGG CCGCGCCGGC GACGCATTCC ACGCCAGGC  
 11801 GCGCCCCGTT GGACAGCGCC AGCGACGCCG ATCCGGACGG CCCGAATGCC  
 11851 AGGCCCTCGA TGCCGATATC CTGGCCGAAC TGATGCAGCG CCCTATCGGC  
 11901 AGTATTTCAT GTTCTCCAT TGCTATCGCG TTGTCCAGCG CGTCTGCGC  
 11951 GGCCGCCAGG ACGGTGGCGC GCACGTCCAT GTCGGCGTAG ATCTGCGTGG  
 12001 GCAGGTCTTT GAGAATCTGG CGTACGCCAC CGAGGAATGC GATGCGCTCG  
 12051 GAGAGGGCAT TCGCACCGTG GCGCTCGGCC AGCTTCTCGA AGCGCGCGGG  
 12101 CGCAATCCAT TTGTCTCGC TGATTCCAC AAGATCGCGC ATCAGGCCCT  
 12151 GGGCGTCCGC AACTCCTGC GAGCCTGCGT TGCCCAACCG TTGTTTCAGG

Figure 5 (continued)

12201 GCATTGCATT CCTCCAGTAC CGTGGCGGCC ACCTCGACTT GATAGAGATC  
 12251 GCTCGCCAAC ACTTGACGCC TGACGCCGTC CGTCGACGGT GTCGCCGCGG  
 12301 CCAGGTCGTG TCCCAGCGCC TGAATCAGCG CGCCCAGCGC GCCGTGGATG  
 12351 TCGTCGTTCC CATAGCGTTC CAGCACCAGG TCCAGCGTGC GCGCCAACGA  
 12401 CAGCTGGCCC AGGGCGATGT CGCGGTACGC GTGCTGGAAG CCGGCCAGCT  
 12451 CGTCAGCGGA ACGCGCGAAT GCGCCGGCCG TGGGCAGGGT GTTGATGCCG  
 12501 GCGCGGATTT CGGGGCCATG GGCGAGCTCC AGGTCGGCCA ATGCATCGCG  
 12551 CAGGGCTTCG AGCGCGTGCG GCGCGGCGTC CTCGTGCTCG CCGCGCTGCA  
 12601 GCGCGTGCTG CAGCGCGAGG TATTGCTGCG TGACACCGGG AAACGCTTGC  
 12651 GCGGCCAGCT GCATGGGGGC GCCCCGGCCG CGCAGCAGCT CGGCGGTGAG  
 12701 GGCTTCCAGT TTTGCCTGCG CGTCGGGGTC GTGGGTGTGG GAAAACAGTT  
 12751 CCGCAAGCTG CGCCGCGTCC AGCCAGAGCA TCGGACGTTC GGCCGTGACC  
 12801 TTGCGTTCGG AGTGATGCTT TTCCTCGGCA GCCTGCGCCA TGTGCAGGCT  
 12851 GAGCTCCTCG GCCGCGTCCG CCAGCGATAT GCCGGTGGGC GCCGGTGCGA  
 12901 TGCGCTGGCC TTGCAGCCAG CCGGAGGAGG TGTTGGCCGA GCGTCTGTGG  
 12951 CGCCCCTGCA TGGCGGCGTG GAAGGGATTG GGGGCGGCAT CGATACGACT  
 13001 CATGGGGAGT CCTCGGAGAA GGAACCATTT GCCTACTGGT GCAGTGAGTG  
 13051 TCGCGCGCGC GGTTCATGGTT CCCGGAACG GCGCGGATAT TGGGCAATTC  
 13101 GCAGCCTGGA ACTTGCCGCG GGCGCAGGGT TACTCAGCAT GCGTCTTTCA  
 13151 ACTCGAAGGA GCTCTCATGA GCATTGATCT CGGAGTTTCA CTCACGTGCG  
 13201 AGGCCGGCGG CCTGCAAGGC ATCGACCTCA AGAGCATGGA TATCCAGACT  
 13251 CTCATGGTGT ATGTGCAGGG TCGTCGCGCC GAACTCCTCA CGGCTCAAT  
 13301 GCAGACCCAG GCCGAAGTGG TGCAGAAGGC CAATGAACGC ATGGCGCAGC  
 13351 TCAACGAGGT CCTGTCCGCG CTGTCCCGGG CCAAGGCCGA GTTTCCGCCC  
 13401 AATCCGAAGC CGGGCGACAC CATCCCGGGC TGGGACAGCC AGAAGATCAG  
 13451 CCGGATCGAG GTTCTCTCA ATGATGCGCT GCGTGCCGCC GGCCTGACGG  
 13501 GCATGTTCTGA AGCGCGCGAT GGCCGGGTGA CCGGCCCCGA CGGCCGGGGT  
 13551 ACGCAGGTCG TGAACGGCAC GGGCGTCATG GCCGGTTCCA CGACCTATA  
 13601 GGAACTCGAA AGTGCCTACA CCACCGTAAA GGGGATGCTG GATACGGCGT  
 13651 CCAATACGCA ACAGATGGAC ATGATCAGGC TGCAGGCCGC CAGCAACAGG

## Figure 5 (continued)

13701 CGCAACGAGG CTTTCGAGGT CATGACCAAC ACCGAGAAGC GGCAGCAGCA  
 13751 CTTGAACAGC TCCATCACCA GCAACATGCG CTAAGCGCTG CACAAGGAGT  
 13801 ATTCCATGCA GGAGCAAGGC ATCCAATCCA TCATGCGCGC CGCGGAAGAG  
 13851 CTGGTCGAGC AGACCCGCCA GGCCTTGTAC AGCGTCGACG AGATCTACGC  
 13901 CCACGTTGGC GTCGACCCCG CTCGCCTGCG CAATCTGGCG GTCGAGCAGG  
 13951 CCAGGATAGA GGCCGAGGCC CAGGCGGCGT TCCGTGATGA CCTCGCGGAC  
 14001 ATCGAGCGCG AGGCGGCGCG CGTCAAGGCG GCCTGCACCG ATGCGCCGCA  
 14051 GGCCCGCAGG GTGCTTCACA ACCACGTCTG AGCGCGGAGG CCTCCATGC  
 14101 CAAAGTCAGC CGACCAGGCG GGCTCCCCGG CGTCAGCTTC GCATGAGGCG  
 14151 TTGCGCCATA TTCTCGACGC AGGCGCTTCG ATGGGGGGCT TGCAGGGGTT  
 14201 GGACGAGGCG CAGCAGCAGG CGTTGTACGC GATCGGTCAT GCGCCTACG  
 14251 AACAGGGGCG CTATGCCGAC GCGTTGAAAA TGTTCTGCCT GCTGGTCGCG  
 14301 TGCATCCGC TGGAAGCCCG TTATCTGCTG GCCCTGGGCG CCGCGGCCCA  
 14351 GGAGCTGGGG CTGTACGAGC ATGCCTTGCA GCAATACGCG GCCGCGGCGG  
 14401 CTTTGCACTT GGAATCCCCC AGGCCCCTGT TGCATGGCGC CGAGTGCCTG  
 14451 TATGCGTTGG GTCGTCGCCG CGACGCCCTG GATACGCTCG ACATGGTGCT  
 14501 TGAGTTGTGC GGCTCGCCCG AGCGTGCGGC CCTGCGCGAA CGGGCCGAGT  
 14551 TGCTGCGCAG GAGCTATGCA CGTGCCGACT GAAACGGCGC CATGTCCGCC  
 14601 GTCAAGATTT CAATTCGAGG AGGTTGATA TGTCTGTTT TCCGACTTCG  
 14651 CCCGGCTCTT TCGGGGCCCG CCCTGTCTTT GACTCCGAAT TGCAGGCCCC  
 14701 GGCCCCGTCT GCGCAGCGTC GCGGCGGTGC GGCGCCTGTG CCGCCGCCCG  
 14751 TCGATCGGCG CGGCGTCGAG CCGGGAGATC CCACGCTGGG CATGCTGCCC  
 14801 GCGCCAGATT TGCTCGCGGG GGGCGCCGTC AGCCGCACCC GCGCGGCGCT  
 14851 CGACGATCTG GACGCCGCAC GGCTCGGTGA AGACATCTAC GCCTTGATGG  
 14901 CGGTGTTGCA ACAGGCCAGT CAGCAGATGC GGGACGCCGC CCGTATCGCT  
 14951 CGTGATGCCG AGGCTACGCG GCAAACGCAG GCTCTCGGCG ATGCGGCCAG  
 15001 CCAGATGCGC CAGGCGGCGA GCGAGCGCAT GGCCGAGCG ATCGTGCGG  
 15051 GCGCCATGCA GATAGCGGGT GGTTCGTGC AGCTGGGGGC GGGCCTGGCA  
 15101 GCGGGTTTGC AGGCCATGGG TGGCGCTGCT GCGCAAGCCA AGGGCGCCGC  
 15151 ATTCTCCGAG CAGGCCTCGA CAAGCCGCAA GGTGGCGGCC GGCTTGACG  
 15201 ATGCCCCCGA GCTGCAGGCA ACGGTGCAGG CCCGCGCAAC CCAGCTCGAA

Figure 5 (continued)

15251 GCGCAAGCGG CCTCGTTTGG TGCGGACGCG GCTCGTTCGT CCGCAAAATC  
 15301 GCAGCGCGTA TCGAGCGTTG CCCAGGCCGG CGCCGCAGCG GCGCGCGGTA  
 15351 TCGGCGGCCT GACCAGCGCC GCCCAGGAAC GCCGCGCCGC CGACACAGAG  
 15401 GCCAGGCGCG CGGAGCTGGA CGTCGAAGCG AAGGTGCATG AAGCGGCCTC  
 15451 GCGGCGGGCC GACGAAGCCA TGCAGCAGAT GCTCGACATC ATCCGCGGCA  
 15501 TCAGGGAAAA GCTGGCCGGG ATGGAGCAGT CCCGCAGCGA GACCGCCCGT  
 15551 AGCGTGGCCC GCAATATCTG AGTGTCCGGC TCCAACCTTC AATCTTGAGG  
 15601 ATGACCGTCA TGAGTACGAC CATATCCACA GCGCCGAGCG GCGCGCGGCT  
 15651 TGCGCCGTCT CGCATAGATA TGCGGGCGCC GGAGCCCGGG AGTGCCGGCG  
 15701 AAGGCGCCGG TATCCTGGCG CCGGTGACGA CGCTGGCTCT GCGGCGGGCG  
 15751 CGGCCGGCTT TGCCAGCGTC ACCGTCGCTG CGCACCGCGC CCGTCTGGA  
 15801 TCCGCCAGTG CGCGATCTCA GCGCCGCCGA CTTGGCCGAC CTGCTGCGCG  
 15851 TCTTGCGATC CAGGGCGGTG GACGGGCAGT TGGCCACGGC GCGCGAGAAC  
 15901 CTGCAGGATG CGCAAGTCAA GGCGAAGCAG AACACCCAGG CCCAGCTCGA  
 15951 CAAGCTGGAC GCATGGTTTC GGAAGGCTGA GGACGCCGAG AGCAAGGGCT  
 16001 GGCTGAGCAA GGTGTTTCGGC TGGATCGGGA AGGTGCTGGC GGTCTGGCA  
 16051 TCGGCCCTGG CTGTGGGCTT TGCTGCCGTC GCCAGCGTGG TCACCGGCGC  
 16101 GGCGGCCACG CCCATGCTGG TGCTCAGCGG CATGGCATTG GTCAGCGCCG  
 16151 TGACATCGCT GGCCGACCAG ATATCGCGAG AGGCGGGAGG GCGGCTATC  
 16201 AGCCTGGGCG GGTTCCTCTC CGGGCTGGCC GGACGTCTGC TGACAGCGTT  
 16251 GGGGGTGGAT CAGTCGCAGG CCGACCAAAT TGCCAAGATC GTCGCGGCC  
 16301 TGGCCGTGCC CGCCGTCTTG CTGATCGAAC CCCAGATGCT GGGCGAAATG  
 16351 GCCGAAGGCG TGGCCAGGCT GCGGGCGGCC GGCGATGCCA CCGCGGGATA  
 16401 CATAGCCATG GCGATGTCCA TCGTGGCGGC GATCGCGGTC GCGCGATCA  
 16451 ATGCCGCCGG TACGGCCGGC GCGGGCAGCG CCTCGGCGAT CAGGGGTGCC  
 16501 TGGGATCGGG CCGCCGCGGT AGCCACCCAG GTCCTTCAGG GGGGTACGGC  
 16551 AGTGGCGCAA GGCGGCGTCG GCGTGTGAT GGCAGTCGAT CGCAACAGG  
 16601 CCGATCTCCT GGTGCGCGAC AAGGCGGATC TGGCGGCGAG CCTGACAAA  
 16651 CTGCGGGCGG CCATGGAGCG TGAGGCGGAC GATATCAAGA AGATCCTGGC  
 16701 TCAATTCGAC GCGGCCTATC ACATGATCGC GCAGATGATC AGCGACATG

Figure 5 (continued)

16751 CGAGCACGCA CAGCCAGGTC AGCGCCAACC TCGGACGGCG CCAGGCGGTG  
16801 TAGCGCCGGG CGCTCAAGGA ATTTTCATGA CTGTTCATGA CGACGCGGGC  
16851 GCGGCGCTGC GCGCCCGGCT GGATGCGTTG CCGGGCAGCC GGCGCCTGAC  
16901 AGCCGAGCAA TTGGAAGTGA TTTACGCGAT GGCGTATGCG CACGTCGCCA  
16951 GGTGCGAGTA CGGCAAGGCG CTGCCCATTT TCGCCTTCCT CGCSCAGTAC  
17001 GGCCCCACGC GCAAGCACTA CTGGGCCGGC CTGGCGCTAT GCCTGCAGAA  
17051 GACCGACCGT CCCGACGAGG CGCGCAATAT CTATGCGTTG ATCCTCACGC  
17101 TCTATCCAGA TTCCGCGGAT GCCGTGTTGC GCACGGCCGA GTGCGAGCTG  
17151 GCGTTGGGTG AGAACGAACG GGCGCAGGCG GCCCTGTTG GCGCAATCGC  
17201 CATCGATGCA GAAAGTGGGC AGCCAGGTCC GGTCTCGCAC CGTGCAGCGC  
17251 CTTTGCTCGA TCTTATTTC GTTTCACATC CGGAGTAACT CCATGCACTC  
17301 AGACTCAGGT TCAGATTCAG GCTCAGACTC AGGCTCAGGC TCACCCATGG  
17351 TCTCGTCGAT ACATCCATCG GAACCGATAC AGCCGATGGA GCATGTGCTC  
17401 GAGGAGGCCG ACGCCCGCCT GCTTACCGAA GTGGGTTTTT TGGCGGCGGC  
17451 CGTCAGCGAT CTGACGCGCG CGGACGCCAT TTTCAATGCA TTGCAACGTG  
17501 TACGGCCGGG CCGGACGCAT CCCTGCATCG GCCTGGCGGT CGCCCGCATG  
17551 AACGCCGGGC TGCCCGACGA AGCCGCCGAG ATCCTGGCGA ATTTCCAGCC  
17601 GGCACAGCCG GAGGACCGCT CGGAAGTGA GGCCTGGTGC GGGTTCGCTC  
17651 TGTGCTGGC TGGCCGCTCG GACGAGGCGC GCCGCATGCT GCAGCGAGCC  
17701 ATCGATGCGG GTGGCGAGGC GGCAAGGCTG GCGCAGGTG TGTTGGACAG  
17751 CGGACCCGCC ATGATGCGGC CCGCGCCGTT GCAGTCCGAG CCATTACCTG  
17801 GAGCTCCTGG ATGAATTTGG ATCTGACGGC GATCAACGCC GTGCAGGAAC  
17851 GGCTGCTCGC TGGATCATTC GACATGCCGC GATCTCCCGC GATGGCGGAT  
17901 CAGGCGCGCT TTGAATTGGC GCTGGGCGAG ATGCCCCGGC CATCGGCCCC  
17951 GAACGGGGCG ATCGCCCTGG CGCCGGTCGC GCTCGACGAG CCGCTGGGCC  
18001 GTCGATTCT TGGACAGTTG CGCGGCGGCC TGGCCGATGT GGCAGGAAAA  
18051 TGGCGGGCGG TGCAGACGGG CTTGGCCGAG GTGAGCCAGG CGCCTACCGT  
18101 GGTGGGTATG CTCGATCTGC AGGCCAGGTT GCTACAGGCA TCCGTGGAGT  
18151 ACGAGTTGGT GGGCAAGGCA ATAGGGCGCG CCACCCAAAA CGTCGATACG  
18201 CTGGCGAGAA TGTCATGAAC GCCATCGGGG CGATCCAACG GTATCGGCGC  
18251 GGCGCGGGAT GGGCGGCCCT GGTGCTCGCC CTGGCGCTGC TGGCCGGCTG



Figure 5 (continued)

18301 CGGTGCCCCG GTCGAGCTGT TGGGCGCGGC GCCCGAGAAC GAAGCCAACG  
 18351 AAGTATTGGC GGCCTGCTC GAGGCAGGCA TCGCTGCGCA GAAGCAGTCC  
 18401 GGCAAGGCCG GCTACGCGGT TTCGGTGCCG GCCGAGGCGG TGGCCCGGTC  
 18451 GCTGGAGATC CTGCGCGCAA GCGGCCTGCC CCGCGAGCAG TTCGACGGAA  
 18501 TGGGACGCAT ATTCCGCAAG GAAGGCCTGG TTTCATCTCC GCTCGAAGAG  
 18551 CGCGCCCGCT ACATTTATGC GCTGTCTCAG GAATTGGCCG ACACCTGTCC  
 18601 GCAGATCGAC GGCCTGCTCA GCGCCCGCGT GCACGTGGTG CTCCCGAAC  
 18651 GCGGCGCGGT CGGCGAGCCG GCCACCCCTT CGACGGCAGG GGTGTTTCTC  
 18701 AAGTACCGCG ACGGACAGAG CCTCGACGCG CTCGTGCCCC AGATCCGCAA  
 18751 GCTGGTCACG CATGCCATCC CGGGCCTGGC CGAGGACCGT GTATCGGTTG  
 18801 CCCTGGTGGT GGCCAGCCC GTTCAGGCCG CACCCGCGCC GGTGCGGTGG  
 18851 CGCCGCGTGC TTGGCGTACA GGTCGCGGAC GGATCGGTCC TGAGATTTTC  
 18901 GCTGTTGCTG CTGTTGTTGC CGGTGCTGTG CCTGATAGTG GCGGGGGCCG  
 18951 CGCTCTACGT CTGGCGCACG CGCTGGTCCC GCGGCGAAGG GCGCGGCGCC  
 19001 GCTGGCGCCG GCGCCACGGA AGGAGCCGGG CATGACTGAG GCGAGCGTGC  
 19051 TGCTTTCCGA GCGGCTCATG ATATTCAATC TCCTGCCAG CCTGACCCTG  
 19101 CATGCCAGTC GCCACGACGA GATGTTTCCA GCCGATTGGG TGCCGCGGTT  
 19151 GTGCAATGCC GACGCGGCGT TGGCCAACGC GTGGCATCGC CATTGGTCCG  
 19201 GCTGGATCTT GTGCGAATTG GGCCTGCTGA ACCAGCCGGT CCTGAGCCTC  
 19251 GATCCGCCGC AGTTGAAGGT CGCGCTATTG TCCACGGACG CCTTGCGGAC  
 19301 CTGCGCCGCC CATGCGGGAG CGCTGCTGTG CGCGCCGCGC CTGCGACGCG  
 19351 CGATAGACGG CGCCGAGGTC CGTACCTTGC ATGCCGCGCT CGGGCGCGAT  
 19401 GTGATGAATT TCGCCGTGTC TTCCGCGGCG CGGGCCCTGC ATGACGGGCT  
 19451 CGCCGCCAGT TCGGACTGGA CCCTGGCCGC CACGGTCCAG GCGGCGCAGA  
 19501 AACTGGGCTG GGCCCTGCTG CGCGACGCCG TGCAGGGCGC CGCCGACGAG  
 19551 ATAGCGCTGC GTTGCGCGCT GAAGTTGCCG CGCGACCTTG ATCCCGCGCC  
 19601 CGTCCTGCCG CCCGAGGCGG CGCTTGCGCT GGTGCTGTCC ATGCTCGAAA  
 19651 TCCTGGATGC AGAATGGCTT TCCTCGTTCC CCGCCCAAGC CTGATCCAGG  
 19701 CGGTACGGCC CGGCCGTGCG GATCCCGCGA CCGACGTCTT GCGCGCTGAA  
 19751 GACTACGCCG AGCTGCTCAG CGCCGCGCAG ATCGTTGCCG AGGCACACTG

Figure 5 (continued)

19801 GCGGGCCGGC GAAATCGTGG CCGAGGCGCG AGAGGAGTTC GAGCGCGAGC  
19851 GCAGGCGAGG CTATGAGGAG GGGCGCCGCG AAGCGCTTAC GGATCAGGCG  
19901 GAGAAGATGA TAGAAACCGT AAGCCGCACG ATCGACTACT TCGCGGGTAT  
19951 CGAGAACGAG ATGATCGAAC TGGTCATGAG TGCGGTCCGC AAGATCGTGC  
20001 ACGGTTACGA CGACCGCGAG CGCACCGTGA TCGCCGTGCG CAACGCATTG  
20051 GCGGTCTGTC GCAATCAGCG CCAGATGACC TTGCGCCTGC ACCCAGACGA  
20101 GGTGGATGTG CTCCGGGAAG GCATGAACCA GCTTCTGGCG GCCTATCCGG  
20151 GCGTGGGCTA CCTGGACCTG CTGCCCCGACG CCAGGCTGGC GCCGGGAGCC  
20201 TGCATACTGG AGAGCGAGAT AGGCATGGTC GAGGCCAGCC TCGAGGACCA  
20251 GCTGTGCGCC TTGCGGGCGG CCTTCGAACG TACATTCGGC CGGCGCGGAT  
20301 AGGGGCATGC GTCAGTACCA CTACATCACG GAGATGATGC GGGTGGCCCT  
20351 GCAGGATCTG TCCACGCTGC GGATAAAGGG CCGGGTGGTG CAAGTGGTGG  
20401 GAACGATCAT CAAGGCCGTC GTTCCGATGG TCAAGATCGG CGAAGTGTGC  
20451 CTGCTGCGCA ATCCCGGCGA GGACTTCGAG ATGCACGGCG AAGTGGTGGG  
20501 CTTTGTCCGC GACGCCGCCT TGCTCACGCC TATCGGCGAC ATGTACGGGA  
20551 TTTCTCGGC GACCGAGGTG ATACCGACCG GACGCACGCA TATGGTCCCC  
20601 GTCGGTCCGG GCTTGCTGGG ACGCGTGCTG GACGGGCTGG GACGTCCGCT  
20651 GGACGCCGCC GAGTCAGGGC CGCTGCATGC CCACAAGTTC TATCCGGTCT  
20701 TCGCCGATGC GCCAGACCG CTGACGCGTC GCATCATCCA TGCTCCGCTG  
20751 GAGCTGGGGG TGCGCGTACT GGACGGTTTG CTTACATGCG GGGAGGCCA  
20801 GCGTCTGGGA ATTTTCGCAG CCGCCGGCGG CGGCAAGTCG ACCCTGCTGG  
20851 GCATGCTGGT CAAGGGCGCC GCGGTCGACG TGACGGTGGT GGCCTGATC  
20901 GGCGAGCGTG GCGGGAAGT TCGCGAGTTC CTTGAGCACG AACTCGGTCC  
20951 GGAGGGCAGA CGCAAGAGCG TGATCGTCTG CGCGACCAGC GACAAGTCCT  
21001 CGATGGAGCG TGCCAAGGCG GCGTACGTCG CAACCGCCAT CGCGAATAC  
21051 TTCCGCGATC AAGGGCAGCG TGTACTTTTT CTGATGGACT CGGTCACCCG  
21101 CTTTGC GCGA GCCCAGCGTG AAATCGGCTT GGCGGCAGGC GAGCCGCCA  
21151 CGCGGCGCGG CTATCCACCG TCGGTGTTTCG CCACCTTGCC CAACCTGATG  
21201 GAGCGCGCCG GCATGAACCA GACGGGTTCG ATCACGGCGC TGTATACGGT  
21251 GCTGGTCGAG GGGGACGACA TGAACGAACC GGTGGCCGAC GAGACGCGTT  
21301 CGATACTGGA CGGCCACATC GTGCTCTCGC GCAAGCTGGG AGCGCGCAT

Figure 5 (continued)

21351 CACTATCCTG CCGTCGACGT GCTGGCCTCG GCCAGCCGGG TCATGAATGC  
21401 CGTGGTGTCTG CCGCGTCACA AGTACCTGGC CGGACGTATG CGCGAACTGA  
21451 TGGCCAAGTA CCAGGATGTC GAGCTGTTGG TGAAAATCGG CGAGTACAAG  
21501 CAGGGCGCCG ATGCGTCGAC CGATGAGGCG ATACAGAAGA TCGGACAGAT  
21551 CAATGCGTTT CTCAGACAAC TAACCGACGA ACGCGAAGCA TTCGAGGATA  
21601 CCGTACTGCG CATGGCTGAA ATCATCGGAC CCGAATCCTA ATGGACCTGG  
21651 AAAGCCTGCT TGCCATCAAG CATTTTCGCG CCGACCAAGC CCAGCTTGCG  
21701 CTGAAACGCC AACAGCAGGC CTGCGCGGTT GCTGCCGCGG CGCAGCGTCA  
21751 GGC GCAAGGC CGCCTCGACG ATTGTCGCCT GTGGGCGGGA CAGCTCGAAG  
21801 ACCGTCTATA TGCCGAGCTG TGCCGGCGCA TCGTCAAGAC ACGCGACATC  
21851 GACGAGGTGC TGCAACGAGT GGGCCACGCC CGCGACCGCC AGGCCAGCCT  
21901 GGC GCTGCAG CTCGACGACG CCGTGCGCCG TCACGAACAT GAAATCCAGC  
21951 TGCTCGCGCA GCAGCGCGAG CAGCACCGGG AGTGCTTCCA GGCGCAGCAA  
22001 CGGATCGCCG AGTTGGTGCG CCTGCAGCAG GTCGAGGCGG CGGCCTTGCG  
22051 CGAGAGCCAG GAAGATCGCG AAATTCAGGA AGCCATCGAA TTGTCGGCGC  
22101 GTGGGCGCGA CGATGCATCG CGAGCCGGCG ACGGCCTGGC GCGGCTATGA  
22151 ACCAGCCAGA CGGGCTGGGT TCGCCCATGG CCGGCGGCGG GCAGCGCATG  
22201 GCGGTGGCGC GCACGCCGTA TGCGCGTCAG CCGGATCGGG ATGCGCAGCG  
22251 TGCCTTCGAG CGGGAAATGG AACAGGAGAA AGCGAAGGAA GAACTGCCCC  
22301 GGCCGCAACG CCTGGCGCCG GGTCCGGCCT GCGTCGGCTG GCTGGCGTCG  
22351 ATGGAACCTG CGGCCGGCCG TCCACCGGCC AGTCTGGCCC AGGCGCTGGC  
22401 AAGCGTGGCT GCGGGGCTGG CGGTAGGCGA CGTGCTGGAG GGGTATCGCG  
22451 AAGCCCGTAT CGTTGTGGAC GATACGCTGC TACCCGACAC CACCTTGTCG  
22501 GTACGGGAGG ACGGCGGCTG GATCGTGCTG GCTTTCGCAT GCCGACAACG  
22551 GGACGCTTGC GAGCGCCTGC ACGCGTGCGC CGACCGGTTG GCCATGGAGC  
22601 TCGCGCTGGA GCTGGCGCGC GACGTCGAGG TTGCGGTGGC ATGCGACGGC  
22651 GAGCCGCACG AGCGGTGGC GCGCGCGCAG CGGCCGTGGC GATGAATCGA  
22701 GTGGCCGGCG GGGCGGCGGC GCAGGCCGCT GGCATGGTGG ATCTCGCGGT  
22751 TCCGCGGTTG AGCGCCGGCG AGGCCCATGC CCTGTCGAGG ATTGCATGCC  
22801 ATGGCGCGCG ATTCGACGTT CGGCTTGCGG AGCCGGCCGT GCGCTGGCAC

Figure 5 (continued)

22851 TGC GCCCTGA CGCCTTGCGT GCACGGCGAC CTTGCCGATG GCGAGATGGA  
22901 AAGCCTGCAA CTGCAATGGG CCGGGACGTA CATCGGCCTG ACGGTTCCCG  
22951 GCGCGGCCGC GCGGGGATGG CTGGCGGCGC GCCTGCCCCG GTTTTCCGGC  
23001 GTGGAGTTGC CGGAACCCAT TGCGGCGGCG GCCCTGGAGG CAATGCTGGA  
23051 GGAGGTCTGT CGAGGCGTGG CCGGACTCGA CCAGCAAGGC CCGGTCCCGC  
23101 TGGCGCGGCA AGGCGGGACG CCACCGGTCC AGCCGCATCG CTGGACCCCTG  
23151 ACGGTACGGG CGCCTGACGG TGGCGTCTGG CGCGCGGTAC TGGCGTGCGA  
23201 CGCATGGGCC TTGCAAGCGG TCGCGGCGGC GCTGGATTCC GTTCCGCTG  
23251 CCGATGGTCG GGTCAATCCG GAGCGCGTGC CGGTCAGGTT GCGTGCCGAT  
23301 GTCGGCGCGG CGTCCGTGAC CGCAGGCCAG CTGCGGACGC TGCGAGCGGG  
23351 CGACGTCGTG TTGCTCGCGC AGTACCGGGT GAGCGATGCC GCAGAACTAT  
23401 GGTGTGCGGC CGGACCCAGC GCGATCCGGG TACGGGCCGA GCATGCGTCT  
23451 TTTCGTGTAA CTCAAGGTTG GACTCCCATC ATGACGGAAC CCGCGACACC  
23501 TGACCCTGGC GAAACCCCGG CACAGGCCGA CGCGACGCTC GATACCGATC  
23551 AGATACCCGT GCGCCTGACG TTCGACCTGG GCGAGCGCGA GTTCACGCTT  
23601 GCGCAGCTGC GCAGCCTGCA TCCGGGCTGC ACGTTCGACC TCGAGCGGCC  
23651 CATCGCCGAC GGGCCGGTCA TGGTGCGGGC CAATGGCCTG TTGCTGGGCA  
23701 GCGGCCGGCT GGTGACATC GACGGCCGCA TCGGCGTGGT ATTGCAGTCG  
23751 GTCAGGCCTG GACTCGCATG AGCGATACCG ACCCCTTCAG CCTGGCCCTG  
23801 TTTCTGGCGC TGCTGGCGCT GGTACCGCTC ATCGTCGTCA TGACCACGTC  
23851 GTTCCTGAAG ATCGCCGTCG TGCTTGCTT GGTGCGCAAC GCCCTGGGAG  
23901 TGCAACAGGT ACCGCCCAAC ATGGCCCTGT ACGGGCTGGC GCTTATTCTT  
23951 TCCGCGTATG TGATGGCGCC GGTGTTTAC AGGATAGGCA CCGAGGTCCA  
24001 GGCCTTGACC GCGCAAGCCG GGGAGTCCGG CACCGCCGCG CCGATGGCGC  
24051 TGGACGCCGT GCTTGCGTG GCCGAGCGAG GCGTGGGGCC GCTGCGGGCC  
24101 TTCATGTTGC GCAACAGCCA GCCGGCCCAG CGTGATTTCT TCCTGCGCAC  
24151 AGCGGTCAT CTCTGGGGCG AGGAGGCATC GCGGGACCTG TCGGAAGACA  
24201 ACCTGCTGGT ATTGACGCC GCATTTCTGG TTTCGGAGCT GACCGCCGCA  
24251 TTCCAGCTTG GCTTTCTGCT GTACCTGCCG TTCATCATCA TCGACCTCAT  
24301 CGTATCGAAC ATTCTTCTTG CCATGGGAAT GATGATGGTT TCTCCCGTGA  
24351 CGATCTCCAT GCCGTTGAAG CTGTTCTGT TCGTCATGGT GGACGGCTGG

Figure 5 (continued)

24401 ACGCGCCTGA TCCAGGGCCT GGTGCTTCC TATCGGTGAC CAGCATGCAA  
24451 ACCCAAGACC TGGTTTCGTT CATGACACAG GCGTTGTACC TGGTGCTCTG  
24501 GCTGTCGCTG CCGCCCATCG CCGTGGTGGC GATCGTGGGA ACGCTGTTTT  
24551 CCCTGTTGCA GGCCTTGACG CAGGTGCAGG AGCAGACCCT GTCCTTCGCC  
24601 GTGAAGCTGA TAGCCGTGTT CGCCACGCTG ATGCTGGCGG CCCGTGGAT  
24651 AAGCGCGGAA ATCTATAACT TCACGATTGC GGTGTTGAT GCCTTTCATC  
24701 GGATCCACTG AGCGGCCAAT CGATGCACAC GGAGTTCAAT TTCGTCGAGG  
24751 CGAAGGTTTT CCTGGGAACG CTGGCCATGA CGCAACCGCG GATACTCAGC  
24801 GCCATGCTCT TTCTGCCGAT GTTCAACCGT CAGTTTCTGC CTGGTCCGCT  
24851 GCGTTACGCC GTCGGCGCCT GTCTCGGGCT GATCGTGGTT CCCAGCTGG  
24901 CGCCGCAGTA TGCCGCGCTG GATATCGACT GGCCCCGGCT GCTGGCGCTG  
24951 CTGGCCAAGG AGGCGATGGT GGGCATGTTT CTGGGTGGC TGGCTGCCTT  
25001 GCCATTCTGG ATCTTCGAGG CCATCGGCTT CGTCATAGAC AACCAACGGG  
25051 GCGCCAGCCT GGGCGCTATC CTCAACCCCG CCACGGGCAA CGATTGCTCG  
25101 CCCATGGGCA TTCTCTTCAA TCTGGGATTC ATGGTGTTCT TCCTGACGGC  
25151 GGGCGGATTC GGGTTGTTGCG CCACGATGCT GTATGACAGC TTCGGGTTGT  
25201 GGAACATCTG GGC GTGGTGG CCGTCCATGC CCGCACAGGG CGCCGTGCGG  
25251 ATGCTGGACC AGTTCAGTGG CTTTGCCGCG CGTGTCTGCTG TGCTGGCCTC  
25301 GCCGGCCATC GTGGCCATGT TCCTGGCCGA GCTGGGCCTG GCCCTGATCA  
25351 GCCGCTTCGC GCCTCAACTG CAGGTGTTCT TCCTGGCTCT GCCGGTAAAG  
25401 AGCGCGCTGG TGCTGTTGCT GCTGGTGCTG TACATGGCAA CGTTGTTCCA  
25451 GTATGCAGGC GAAATCCTGG GTTCTGTGGG CCGGATCGTG CCGTTCCTGC  
25501 ATTCAGCGTG GCCCGGCCCA TGAGCGGCGA GAAAACCGAG CGGCCACCC  
25551 CGAAGCGCCT GCGCGATTCC CGCGAGAAAG GCGAGGTCGC ACACAGCCGG  
25601 GACTTTACCC AGACGGCGCT GATATGCGCC TTGTTCGGGC ACTTCTGAT  
25651 CAATGCCCCG TCCATTCTCG CGTCGCTGCG AGCGCTGATA CTGGCGCCGG  
25701 CGGCCTTTGC CGACCAGGGG TTCGCCGTCG CATTGGGGCC CGTGCTGACG  
25751 GAAATCCTCG ATCAGGCCGT CCGCGTGCTC GCTCCGCTGA TTCTCATCGT  
25801 GCTTGGGGTG GGGATGTTG CCGAATTCCT GCAGGTAGGC GTCGTGCTGG  
25851 CGTTTCGAAA GCTCAAGCCT TCGGCGGAGA AACTGAATCC CGCCGGCAAT

Figure 5 (continued)

25901 TTGAAGAATA TCTTCTCGGC GCGCAACCTG ATGGAGTTCA TCAAGTCGGT  
25951 ATGCAAGATC CTGTTTCTGG CGGTGTTGGT CACGTTGGTG ATACGGGATT  
26001 CCTTGCAGCC GCTGATGGCC GTTCCCCATA GCGGGCTGGA CGGGTTGCGA  
26051 ACGGGCGTAG GCCGCATTCT GCAGGTCATG GTCTGGAACA TCGGACTGGC  
26101 GTACGGGGCG ATTTTCGCTGG CGGACCTGGC CTGGCAGCGT TACCAGTATC  
26151 GCAAAGGCTT GCGGATGAGC AAGGACGAAG TGAAGCAGGA GTACAAGGAG  
26201 ATGGAAGGCG ATCCCCATAT CAAGCAGCAA CGCAAGCACC TGCACCAGGA  
26251 GCTGATCATG CATGGCGCGG CGGCCCAGGT TCGCCGGGCG ACGGTGCTGG  
26301 TGACCAATCC GACACACCTG GCCGTGGCCC TGTACTACGC GGCGGGCGAG  
26351 ACGCCCTTGC CGCGCGTGCT GGCCATGGGG CAGGGAGCCG TGGCCGCTCT  
26401 CATGGTCGAG GCCGCGCGCG ATGCCGGCGT GCCGGTCATG CAGAACGTCG  
26451 CGCTGGCCCG CGCCTTGAC GACCAGGCGG AGGTGGACCA ATACATTCCC  
26501 GGCAGATTGG TGGAGCCGGT GGCCGCGGTG TTGCGGGCGG TGCGCCAGGC  
26551 ACTCAAGGAG CAGACATGAC AGCAACCATT CATCCCGATA TTGCCGATTA  
26601 TGC GCGACGC CATGGCCTCG AACCCTCGGT CGACGCCGAT GGC GGGCTTG  
26651 CCGTCCGGAT CGACGGACGG CATCGCGTCA GGTGATCCC CGCCGAAGAC  
26701 GGCATGCTGG TGTTGCGGGC GCGGCTGGCC GAGCTGCCCC ATGGGTGGCA  
26751 GGC GCGCGCG GCGCAGTTGC GCCGGGCGGG CCTGCTGGCC AGCGCCATGG  
26801 CCCCTGCGAC CGATGCGTAC TGCGGCATAG ACCAGGGCGA AACC GCGTTG  
26851 TATCTGCACC AGCGCGTCGC ACCGGCCGGC AGT GCGCTGG CGGTGGACGA  
26901 GGCGGTGGGC GAGTTCGTCA ATGCCTTGGC CACTTGGAAG AGGGCGATGG  
26951 CGCAATGGCA ATAGGTCGGC TTGGGTATCT TGTCCGCGGC GCATGGGCCC  
27001 GGGGTGTCAT GCTGTTGGCG GCCGGTAGCG CCTGGGCGGC GCCGAAC TGG  
27051 CCTTTGGCGC CGTATAGCTA CTACGCGCAG CAGCAGAGCC TGTCCGATGT  
27101 GCTGCGCGAG TTCGCCGAG GCTTCAGCCT GGC GTTGCAA CAGGGCAAAG  
27151 GGGTGCAAGG CGTGGTCAAT GGGCGTTTCA ATGCGCGCAC ACCCACGGAG  
27201 TTCATCGAGC GTCTCAGCGG CATCTATGGG TTCAACTGGT TCGTGCATGC  
27251 CGGCACGCTG TATGTCAGCC GCACCAGCGA CGTGGTTACC CGCGCGGTGG  
27301 ATGCAGCCGG CGCTTCGCCG TCGGCGTTGC GCCAGGCCTT GCTGCAACTG  
27351 GGCATCCTGG ACGAACGCTT CGGATGGGGA GAGCTGCCGG CGCAAGGCGT  
27401 GGCCATGGTG TCAGGGCCGC CGGCCTATGT CGCGCTGGTC GAGCAGGCGG

Figure 5 (continued)

27451 TAGCGGCGTT GCCCAAGGGG GCCGGCAATC AGCAGGTGGC GGTGTTTCGC  
27501 CTCAAGCATG CTTCCGTGAG CGACCGGGTG ATCCGTTATC GAGACCAGCA  
27551 GGTAGTTACG CCGGGGATGG CCACCATGCT GCGCCAATTG ATCCTGGGGG  
27601 CGGGGCCGGG CAACGACGCG GCGCTGGCCG CGGTGGCGGC GCCGCTGCGG  
27651 GAAAATCCGC CGGTGTTCGG CGATGCGGCA GCTGACGGGA ACGCGCCGCT  
27701 CGCTGGCGCA GCCCAGGCAG CCGGCCGGCG CCTGAGCGAG CCCAGCGTGC  
27751 AGGCCGACAC GCGCCTCAAT GCCTTGATCG TGCAGGATAT TCCCGAACGG  
27801 ATGCCAATCT ACCGTGCCCT GATCGAGCAG TTGGATGTGC CCAGCACCTT  
27851 GATCGAAATA GAGGCCATGA TCGTGGACGT CAATACCGAT CTGGTCAACG  
27901 AGCTGGGTGT CACCTGGGGG GCGCAGATCG GAACCACCAG CCTGGGCTAT  
27951 GGCGATCTGG GGCTGCGTCC CGGCAACGGC CTGCCCCTGG ACGGCGCGGC  
28001 GGCCGACCTG GCGCCCGGAA CCTTGGGGAT CAGTGTCAGT ACCCGGCTGG  
28051 CGGCGCGCTT GCGTGCGTTG GAGTCGGACG GGCAGGCCAA TATCCTGTCT  
28101 CAGCCGTCCA TCCTGACCGC CGACAACCTC GGCGCCATGA TAGACCTGTC  
28151 GGATACCTTC TACATTCGCA CCCTGGGCGA GCGCGTAGCG ACAGTCACGC  
28201 CTGTCACGGT GGGTACGTCG TTGCGTGTGA CGCCGCGCTA TATCGCCGCC  
28251 AAGGGAGGAC GCCAGGTGGA ATTGGCGATC GATATCGAGG ACGGACGGGT  
28301 CTTGCAGGAG TATCCCATCG ATGGTCTGCC CCGGGTTCGG AAAAGCAGCA  
28351 TCAGCACGCT GCGGTGGTG GGGGACGAGC AGACGCTGCT GATCGGCGGC  
28401 TACAACAATC GCCGTGACGA AGAGCAGGTC GAGAAAGTGC CGCTGCTGGG  
28451 AGATATCCCC GGCCTGGGGT TCTTGTTCTC GAGCAAGTCC CGGGCGGTAC  
28501 AGCGCCGCGA GCGGCTGTTT CTGATCCGGC CGCGTGTCGT GGCTATCGAG  
28551 GGCAAGCCGG TCTTCAGCCC CGTTGCGGGC ACGTCGCAGG GTTTCATGAG  
28601 CACGGGTTGG GCGGGCATG GCAGCAGCCT GAGCATTGCA CCCGGCGAGG  
28651 GCGGGCATAc ACAAGTGCCT CATGATGCCC GGGCGGGCAG GCCGGTCCGG  
28701 CTGGTGCCGG ATTCATTGCA TGTGGAGTAT GGCGAGGCGG GGGAGGCGTC  
28751 GCCCTGAGCG TGGCCCGGGC AGGGGGGCTA CGGCACGCTG TCGTAGCCTC  
28801 GTTCGCGCAG CGCTTCGCGC AAGGCACAGC GGGCGCGGGA AAGTCGGCTG  
28851 CGAATGGTTC CTACAGGAAC CGAAAGCAGT GCGGCAGCCT CTTCATAGGA  
28901 GAGTTCTTCC ACGCCGACCA TGAGGATCAC GTCGCGCATG CTTTCGGGGA





Figure 5 (continued)

30501 TAACGGCTAT AACCTGCTCG AAACCGCATT CGCGCCTGTG AACGGCGGCG  
30551 CGGGAGGGCT GCGCCGACTG GCCGAAGCGG TGCGCCGCGA GCTGCGTGAC  
30601 ACGCAGCTCG CCCTGGCCGC GGAGGGGGCG ATGCTGATCA ACGCGGCCGA  
30651 GCACCCCGCC GCCAGCCTGG ATGCCGACTG GTACCGGCGA GTGCGGGTGC  
30701 CGCGGCCCAT CTACGAGGAA CTCGTCGGCC AGCGAGGCTG GCTGCACCGG  
30751 ATCGGGATAG ACGCCAAGGC ACAGAACAGC CCCTGCACGT CGGTTCCCGT  
30801 GGCCATCGCC GCGCGCTGCC TGAACGTCGT GCTGGCGCTG GCTCCCGCGC  
30851 AGATCGCCAT GTTCGCCAAC AGCCCGCTGG AGGCAGGGCG GGTGACCGGT  
30901 CTCAAGGAAA ACCGCCTGAC CCTGTGGCCG CGCATGTTCC GAGGCGCGCG  
30951 CTACCTGGGC GACGACCTGC TGCATCGCCT GCCTGCAAGG CCGTTTCGCG  
31001 ATCTCGGCGA TTATTTCCGC TGGATGTTTCG GCGGATTGAC CGCCAGCCGG  
31051 GCGCTACCGC CGGGCGACGC TTGCGACTAC AAGAACGCCG ATGTGGCCTG  
31101 CCTGGTGGGA GCCCCTTCGC TGGCAGAGTT CCTGTATGCG GGCGCGTGGT  
31151 CCGCGCGAAA CCTGAATGAT GGCGGTTCGG TCGTCTGGC CGCGCGCAGC  
31201 GAACATTTTCG TCTATTCGCA GTTCGCGCAG TTCCTGGACG CGCGTTGGCG  
31251 CTACAGGATG CCGATTGTCC CCGCCTTGCC GGCGCTGTTG CGAGCCTGGG  
31301 ACAGGCAGGG CGGCCTGGAA GCGCTGTTTCG AGCAGGCCGG CGCGCAAGGC  
31351 TACATCGAGG GGCGCGCGCC GGGCGCGGTA TTTGCCGATG CCGACTTGCT  
31401 GAGCTCAGCC GGCGATGCAG TCGCGGCCAG TGCGCCGATG GCGGCGTCGG  
31451 CGCTGCAATT GGGGCTGTTG CGCAATCTGC ACGACGCCGA GGCCCTGGTG  
31501 AGGCGATGGG GCTGGCTGCG CTTGCGTGCG TTGCGCGATC GGGCCATCGC  
31551 TTTGGCGTTG GACGATGCGC AGGTGCGCTG CCTTTGCCAA CAGGTCGTGG  
31601 CGGTAGCCGA AGGCGGGCTG GCCGGCGACG AGCAGCAATG GCTCGATTAT  
31651 GTGCGTTACG TGGTGGAAC CGGCGAGACC GCCGCGGACC GCATGCTGCG  
31701 CTTGTGGCGC CAGGCGCGCG GCACGCCTGA GATGCGCCGC GCACAGGCGT  
31751 GCCGGCAGCG CGCGGTGCTG TCCTAGGATC CGGCACATTC CTTGCCAGGT  
31801 CTCGTTGGCC AGGCCTGTCA GTGCTCCGCT TCGTACACCT CGTCGGCCGC  
31851 CAGCAGAATA TCCACCGGTG GGTCTGAAGCC GATGCGCCGC GCCGTTTCCA  
31901 GATTGATGGC TATCTTGCGG GGGGCATTCC AGACCTGGCT GATGCTGCGC  
31951 GGCTTTTCCC CATTGAAAAT GCGGGCAATG GTCTGGGCGT GGAACATGCC

Figure 5 (continued)

32001 TACGCTGGAG TAGTCCGCCT TGGCCAGGCT CATCAACAGG CCGGCCTTGA  
32051 CCTCGTCGGA GCCTTGATC GAGAACTCG GCACGCGGGC GCGCGCAGC  
32101 AGCGCGGCGA GCTGCTTGAC GGACGTCGAG GTGATGCCCC GGTGCTCGGT  
32151 GACGTAAAAG GCGTCGACTT CGCTCGACAG CTTCTGGTAG CAAGCCAGAA  
32201 CGTTCTGGGT TGCCGTGGCG ATGGGGATGC CGGTCGCGCG TCGCTCGCAA  
32251 CGCTTGACGG AGAAATCCAA TGCCGGCATT AGTGCGGCGA CCTTATCGAT  
32301 GGCTGCGTAG GTGCGACCTG CTTGCGGTGTC TTCGTAGACC AGTCCAAGCG  
32351 TCTTGAACGG CACGATGTCA TGGAGCAGCT GGATCTGCCG CTGGTAGTGG  
32401 TCGGGCTGTA CCCGGGCATG CAGGTTGTCC TGGCCGCTGT CGGCCGCACT  
32451 GGGTATGATC CGGGCGCTTA TCGGGTCGGT CGACGAGACG ACCACGGTGG  
32501 GTACCGGCGT GCCCAGTTCG ACCATGTCCT GTCCAGCCCA GGTACCCATG  
32551 GCGATGATCA GGTGATGTC CTTGGCGCCA TGCAGGCGTG CCGCAACGGC  
32601 TTCGCGCACG GCAGGCCGCA AGGCGGTGTC GAAGTTGCCG GGCTGCCACC  
32651 ACGCATCGGG CACGAACTCG ATGTAGTTGC TGCGGGCATG CGTGCCAGG  
32701 TAAAGCCAGG CCTTTCGCAT ATCGGTTATC TCGGGCATGT CGTCGATACG  
32751 CAGCCATCCG AGTTGTTGCA ATGCGCGCGC GATCGCGTAG AGCGTGC GCG  
32801 GATACTCCTC GTACTCGCCG CTACCCACAT AACCGATGCG CCATTTCCGG  
32851 CCGGATGTAT GGGAGGGAGG CGGAAGGCGG GGCAGGTAA GGGCGACGCC  
32901 GGAGCTCAGG GCCGCGACAG GAGGAGGGCT GGATGCCGCC GCGATGGGCC  
32951 ACGCGAGGCC AAGAAGCAGG GCGAGCGGGG CGAGTATTCC GGGGCGAAGG  
33001 GTCATGGGCG ATGAATGGCG ATGATGGTGA GATCGTCGGA TTGTTCCGAA  
33051 TCGGCGGCGA ATTGCGTAG GTCGTGAGA ATGTGCTCGA TGAGTTCGGC  
33101 CGCTGCGTGC GCGCGCCCT GCATCAGGGC GACCAGCCGC GGCAGACCAT  
33151 ACTGGGCGCA GCCGCCGTGG ATGGCTTCGG TGACGCCGTC GGTAAACGCG  
33201 ACCAGCGAGG TGCCGTTCGG CAAGGTGGTG CTCAGGGTGG AATACGCCTC  
33251 GTTGTCCAGC ACGCCGAGG CCGCGCCGCT GCTTCCTTGA AGCAGGCGGA  
33301 CCTCGCCACG TTCGTGATG AGCAGCGGCG GCGGGTGGCC GCGGTTGACC  
33351 CAGGCCAGGG CGCCTGTTTC CGGGGTGAAG ACGCCTATCA GCAAGGTGAC  
33401 AAACATCAGC TTGGGGTTGT TCTCGGCCAG ACGGTGGTTC ACCTTGGTGG  
33451 CGATGGCGCC CGGGTCGTGC TCTTCTCCG CCACGCTGCG TATCAAGGTC  
33501 CTGACGATGG CCATGAACAG GGCCGCGGGC ACGCCTTTTC CGGATACGTC

Figure 5 (continued)

33551 GCCGATGGCA AAGCACAGAC GCCCGTCTGC CAGCACGAAG TAGTCGTAGA  
33601 AATCCCCACC GACCTCCCGG GCCGGGTACA TGACGGCACG CAACTGGCTG  
33651 CCGCGCGTGG CCGCATCGGG CAACGGCTGG GGAAGCAGGC CAAGTTGGAT  
33701 GGAGCGGGCG ATGCTCAATT CGCTTTCGAG GCGTTCGCGG TTCGATATCT  
33751 GCGCCATCAG GGCCCGCACA TTGTGGTGCA GCTGTTCGTT CATGAACAGG  
33801 AACGATTCCG CGAGCTGTCC GACTTCGTCTG CGCCGCCGGC GCGGCAGGCA  
33851 TGCCACCGAC GGCGGAACCC GGATCGGCTC GGTGAGGTCC TGGGTGGGAA  
33901 GCTGGCGAGC GTAGTTGCTC AGTTGCGCCA ACGGCCGGGC GATGCGCACC  
33951 GCCACCACCC ATGCCAGCAT CAGCCCGGCC AGCAAGGTGG CGGCGAAGAT  
34001 CAGTGCCTGC CGGCGCACCA GATTCTGTGC CGGGTCGGTC AGGTCCGGCT  
34051 CGGGAACGAC ACCGATGATG GTCCAATGCA GCGGCTTGTA TCGCAGGGCG  
34101 TCGATCTGCC AGGCGCTTTC GCCGTTGGTA AAGCGCAACG TCAGGCCGCG  
34151 GGTAGACGAG ATTTTCGGCAA GCATCGAATG CAATACCCGT CCCGATTCTGA  
34201 CGTCTGTCTGA GTCCAGCAGC CGGGCGGGCC ATGGGGGTGG CGGCACGATC  
34251 ACCGTGCCAT CGTCCGCAAC CACGAACACG AAACCATGGC GGCTGAGCCG  
34301 CAGCTCCGAC AGGTTCCGGT CTATCGCGGC AATCATGTTG GCTTTCTGGG  
34351 CGGCAACCTT GTCGATGATG GCTTGTGAGC TATCGGAGAT GCGGAGAACC  
34401 CACTTCCACG CGGGGAAGTA CACGAAATAG GCGTGTCGCA TCTGGGCGGA  
34451 CTCGTCCAGG GGAGACGGGT AGATGGCGAA GCCGCGACCG TCGTTGCGGC  
34501 TTTCTCTGTA CATGGCGGCG GCGAGCGGCC GGCCCTTGAA GTCGCGGATC  
34551 CCGGAGAGGT CCCGGTCGAT CATCCGGGGG TTGGTGCTGG CCAGCACGGT  
34601 GCCTTCCGCG TCATAGGCGA AGGCGACGCG GCGCGGTCCC AGGTCGAGAT  
34651 GGTTTCAGCCA GACACGCGCC ATGCCCTTGG CGGCGCCGGT AGTGACGTGT  
34701 CCGCGCTCGG CCTGCGCGGC ATAGGCGTTC AGCACCGATG TCACGACCGC  
34751 GCTGAGTTGG ATCAGTTGCC TGCGGCTTTC CCGGATGGTG CGGATCTTGT  
34801 CGTCGAGCAG CGTGGACCAG CGCGTGTCGG TGTCACGAAC TACCAAGTCC  
34851 ATGATGTTAC TGACGGCATG CAGTTCGTTC TTGATGATGT TGTTCTGTGAC  
34901 ATCGCGCTGG GTCACGAGCA TCACGACGAT GCCTACGAGT AGCAGCGTGG  
34951 ATGCAATGAG CAGGAGGAAC TTCCACGCA ATGAAAGCGG CAACTCTAGC  
35001 CGGGGAGTAC GGCGCATGAA CATGAA

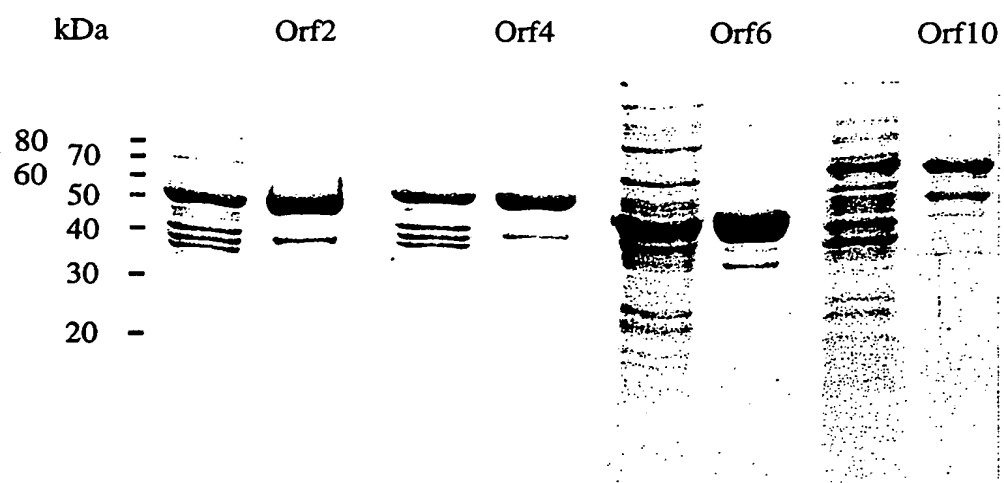


FIGURE 6